Application No. 10/628,983
Response dated: December 5, 2005
In Reply to Office Action dated: October 6, 2005

AMENDMENT TO THE CLAIMS

Please replace the claims with the following rewritten listing:

1. (Currently Amended) An optical mouse comprising;

an image sensor, consisted of a plurality of pixels, for outputting signals accumulated in a given time as a pixel unit;

an A/D converter for receiving the output of the image sensor and converting the output into a digital signal format;

an image data processor for receiving the output of the A/D converter and calculating a moving value of the optical mouse;

a system controller for controlling data flow with an external system and receiving the image data processor;

an statistic value calculator for receiving the output of the A/D converter and calculating an statistic value; and

a pick-up state discriminator for receiving the output of the stastic value calculator and generating a pick-up state signal,

wherein the pick-up state signal is used to make the moving value "0".

2. (Original) The optical mouse according to claim 1, wherein the statistic value is obtained by averaging the pixel value.

3. (Original) The optical mouse according to claim 1, further comprising a fluorescent lamp state discriminator for receiving the pick-up state signal from the pick-up state discriminator, discriminating whether the optical mouse is in a fluorescent lamp state and generating a fluorescent lamp state signal, and controlling the moving value.

4. (Currently Amended) A method for preventing an erroneous operation of an optical mouse comprising:

a first step of judging whether a pixel statistic value in one sample period is below the reference level continuously;

a second step of returning to a normal operating state when the pixel statistic value is not below the reference level continuously, and generating a pick-up state signal to make no moving state when the pixel statistic value is below the reference level continuously;

a third step of judging whether the pixel statistic value in one sample period is entered with a value not below the reference level continuously;

a fourth step of returning to the third step when the pixel statistic value in one sample period is not entered with a value not below the reference level continuously, and judging whether a variation of the pixel statistic value is corresponded to a [["]]fluorescent lamp state[[']] when a value not below the reference level is entered continuously; and

a fifth step of returning to the second step when a result of judgment of the [["]]fluorescent lamp state[[']] of the fourth step is the[["]]fluorescent lamp state[[']], and returning to the normal operating state when the judgment is not the "fluorescent lamp state".

5. (Original) The method for preventing an erroneous operation of an optical mouse according to claim 4, wherein the statistic value is obtained by averaging the pixel value.